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Notice of Allowability	Application No.	Applicant(s)	10
	10/627,481	WASIEWICZ, RICHARD	
	Examiner	Art Unit	-
	John B. Sotomayor	3662	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGORY OF THE PROPERTY OF THE	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject t	oplication. If not included n will be mailed in due cours	e. THIS he initiative
2. The allowed claim(s) is/are <u>1-23</u> .			
3. The drawings filed on are accepted by the Examiner			
4.	been received. been received in Application No uments have been received in this of this communication to file a reply ENT of this application. ted. Note the attached EXAMINER is reason(s) why the oath or declarate be submitted. on's Patent Drawing Review (PTO- Amendment / Comment or in the C (4(c)) should be written on the drawing header according to 37 CFR 1.121(c) it of BIOLOGICAL MATERIAL re	national stage application from the requirement of the stage application from the requirement of the stage of	nents E OF
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat), 7. ☐ Examiner's Amendn	e	

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DETAILED ACTION

Drawings

- 1. The drawings filed July 25, 2003 appear to be informal and are acceptable for examination purposes only.
- 2. New corrected drawings are required in this application because allowable subject matter has been indicated. Applicant is advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

Replacement Drawing Sheets

Drawing changes must be made by presenting replacement figures which incorporate the desired changes and which comply with 37 CFR 1.84. An explanation of the changes made must be presented either in the drawing amendments, or remarks, section of the amendment. Any replacement drawing sheet must be identified in the top margin as "Replacement Sheet" and include all of the figures appearing on the immediate prior version of the sheet, even though only one figure may be amended. The figure or figure number of the amended drawing(s) must not be labeled as "amended." If the changes to the drawing figure(s) are not accepted by the examiner, applicant will be notified of any required corrective action in the next Office action. No further drawing submission will be required, unless applicant is notified.

Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin.

Annotated Drawing Sheets

A marked-up copy of any amended drawing figure, including annotations indicating the changes made, may be submitted or required by the examiner. The annotated drawing sheets must be clearly labeled as "Annotated Marked-up Drawings" and accompany the replacement sheets.

Timing of Corrections

Applicant is required to submit acceptable corrected drawings within the time period set in the Office action. See 37 CFR 1.85(a). Failure to take corrective action within the set period will result in ABANDONMENT of the application.

If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability." Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136 for filing the corrected drawings after the mailing of a Notice of Allowability.

Allowable Subject Matter

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Claims 1-23 are allowed.

4. The following is an examiner's statement of reasons for allowance:

The prior art fails to render obvious the claimed monopulse radar system including, inter alia, transmitting means for recurrently transmitting one of radar pulses and bursts, the frequencies of which are controllable; a monopulse receiving system including means for generating an elevation difference beam and an azimuth difference beam responsive to target echoes originating from the one radar pulses and bursts; monopulse processing means for generating monopulse estimates of the azimuth and elevation angle of the centroid of clustered scatterers making up a targets; means coupled to said transmitting means and to said monopulse processing means for causing said transmitting means to transmit plural ones of said one of radar pulses and bursts, and generating a test statistic representative of the shape of the cluster of said monopulse estimates arising from said plural ones; and comparison means for comparing said test statistic with a decision value to declare the presence single target when said test statistic is one of greater than or less than said decision value and to declare the presence of plural targets when the test statistic is the other one of greater than or less than the test statistic. The prior art does show resolution of closely spaced targets using a monopulse radar system. However the present invention, as claimed, cannot be fairly rendered obvious by the prior art.

As to claim 5, the prior art fails to render obvious the claimed method for detecting the presence of a single or plural targets in a range cell of a radar system having a receiver for azimuth difference and a separate receiver for elevation difference including, inter alia, the steps of performing a detection decision on each pulse or burst such that if a target detection occurs, the target azimuth and elevation relative to a boresight are estimated, and the estimates are mapped into an absolute azimuth-elevation estimate pair in an earth-fixed coordinate system and the step of estimating and mapping for a plurality of said pulses or bursts is repeated as claimed. The prior art show mapping pulses. However the present invention as claimed cannot be fairly rendered obvious by the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited prior art show various radar systems.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Sotomayor whose telephone number is 703-306-4170. The examiner can normally be reached on Monday to Thursday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom H. Tarcza, can be reached on 703-306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John B. Sotomayor Primary Examiner Art Unit 3662